

### ABSTRACT

An improved communications system for servicing customers that are already partially serviced by an established backhaul connection, but which need an alternate and improved connection for broadband services. In established systems, customers are connected through access points using an established backhaul transport to an established central office. The alternate connection includes a remote digital subscriber line access multiplexer (R-DSLAM) connected to the established access points. The R-DSLAM connects with a new and alternate connection, between the R-DSLAM and the established office in parallel with the established backhaul transport and/or the R-DSLAM connects to a different remote office or other locations in communications networks. The R-DSLAM is environmentally hardened for all-weather outdoor installation and mounting on a utility-pole.

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